



Tropical Depression NATE QuickLook
Posted: 11:00 CDT 10/08/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 10/08/2017 11:00 CDT, water levels along the Gulf Coast from Amerada Pass, LA to Apalachicola, FL have generally started to fall but remain elevated. Water levels from Shell Beach, LA to Apalachicola, FL including within Mobile Bay range between 1.05 and 3.5 feet above normal tide levels with the highest water levels observed at Coast Guard Sector Mobile, AL. Water levels within Lake Ponchartrain and along far southeastern Louisiana range from 1.05 to 2.6 feet above tidal predictions. West of where Nate made initial landfall near the mouth of the Mississippi

River, water levels range from 1.2 to 1.9 feet above tidal predictions.

Wind speeds are declining across the region and generally range from 5 to 15 knots with slightly higher gusts. Panama City Beach, FL observed the highest wind gusts reaching up to 42 knots. Barometric pressure has continued to increase across the region.

No further QuickLooks will be posted for this storm unless oceanographic conditions warrant and/or the National Hurricane Center (NHC) issues a new tropical storm or hurricane warning for the U.S. or its territories.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: KAK

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Tropical Depression Nate Advisory Number 17

NWS National Hurricane Center Miami FL

1000 AM CDT Sun Oct 08 2017

...HEAVY RAINFALL SPREADING INLAND AS NATE BECOMES A TROPICAL DEPRESSION...

...FUTURE ADVISORIES WILL BE ISSUED BY THE WEATHER PREDICTION CENTER...

SUMMARY OF 1000 AM CDT...1500 UTC...INFORMATION

LOCATION...33.1N 87.3W

ABOUT 40 MI...65 KM SW OF BIRMINGHAM ALABAMA

MAXIMUM SUSTAINED WINDS...35 MPH...55 KM/H

PRESENT MOVEMENT...NNE OR 30 DEGREES AT 24 MPH...39 KM/H

MINIMUM CENTRAL PRESSURE...996 MB...29.42 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

All coastal warnings have been discontinued.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

There are no coastal watches or warnings in effect.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND 48-HOUR OUTLOOK

At 1000 AM CDT (1500 UTC), the center of Tropical Depression Nate was located near latitude 33.1 North, longitude 87.3 West. The depression is moving toward the north-northeast near 24 mph (39 km/h). A turn toward the northeast with an increase in forward speed is expected during the next couple of days. On the forecast track, Nate's center will continue to move inland across the Deep South, Tennessee Valley, and central Appalachian Mountains through Monday.

Surface observations indicate that the maximum sustained winds have decreased to near 35 mph (55 km/h) with higher gusts. Little change in strength is predicted during the next couple of days, but Nate is forecast to become post-tropical on Monday or Tuesday.

The estimated minimum central pressure is 996 mb (29.42 inches).

HAZARDS AFFECTING LAND

WIND: Tropical-storm-force wind gusts are expected over the the Florida Panhandle, and portions of Alabama and Georgia through this afternoon.

STORM SURGE: Water levels remain elevated along portions of the northern Gulf coast, but should gradually subside this afternoon.

RAINFALL: Nate is expected to produce the following rain accumulations through Monday:

East of the Mississippi River from the central Gulf Coast into the Deep South, eastern Tennessee Valley, and southern Appalachians: 3 to 6 inches, max 10 inches.

Across the Ohio Valley into the central Appalachians: 2 to 5 inches, max 7 inches.

TORNADOES: A couple tornadoes will be possible today, mainly from the Florida Panhandle and eastern Alabama across western and northern Georgia into the western Carolinas.

SURF: Swells generated by Nate will affect land areas around the Gulf of Mexico through this evening. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

NEXT ADVISORY

This is the last public advisory issued by the National Hurricane Center on this system. Future information on this system can be found in Public Advisories issued by the Weather Prediction Center beginning at 4 PM CDT, under AWIPS header TCPAT1, WMO header WTNT31 KWNH, and on the web at <http://www.wpc.ncep.noaa.gov>.

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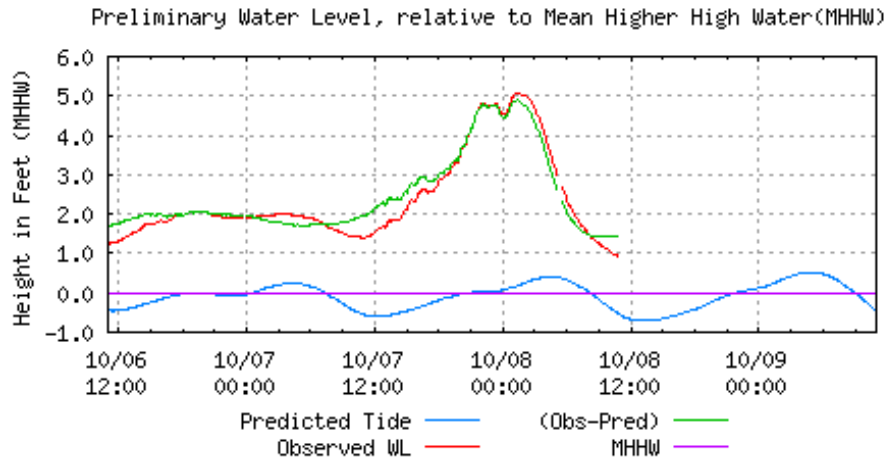
Forecaster Brown

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Shell Beach - Water Level](#), [Shell Beach - Winds](#), [Shell Beach - Barometric](#), [Bay Waveland Yacht Club - Water Level](#), [Bay Waveland Yacht Club - Winds](#), [Pascagoula NOAA Lab - Water Level](#), [Dock E, Port of Pascagoula - Water Level](#), [Bayou La Batre Bridge - Water Level](#), [Dauphin Island - Water Level](#), [Dauphin Island - Winds](#),

Dauphin Island - Barometric, East Fowl River Bridge - Water Level, Coast Guard Sector Mobile - Water Level, Coast Guard Sector Mobile - Winds, Mobile State Docks - Water Level, Weeks Bay, Mobile Bay - Water Level, Pensacola - Water Level, Pensacola - Barometric, Panama City Beach - Water Level, Panama City Beach - Winds, Apalachicola - Water Level, Apalachicola - Winds, New Canal Station - Water Level, New Canal Station - Winds, I-10 Bonnet Carre Floodway - Water Level, Pilots Station East, SW Pass - Water Level, Pilots Station East, SW Pass - Winds, Pilots Station East, SW Pass - Barometric, Grand Isle - Water Level, Grand Isle - Winds, Port Fourchon, Belle Pass - Water Level, LAWMA, Amerada Pass - Water Level, LAWMA, Amerada Pass - Winds, LAWMA, Amerada Pass - Barometric

NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



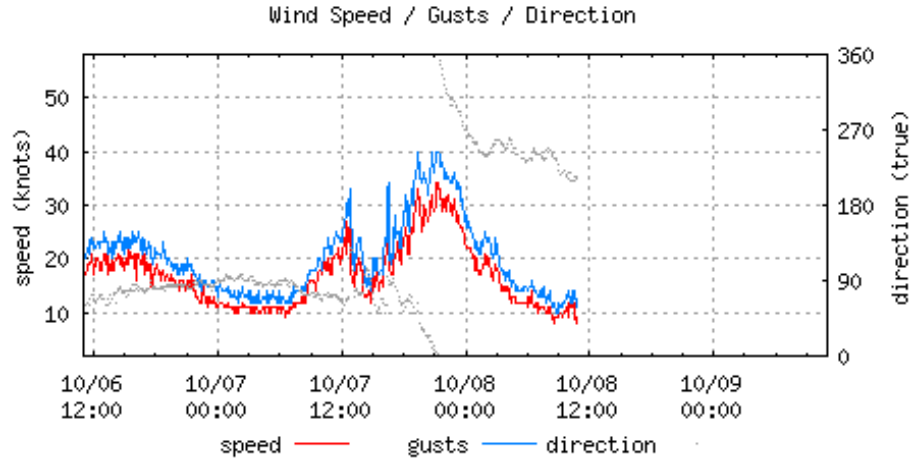
Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

Observed: 0.93 ft. Predicted: -0.52 ft. Residual: 1.45 ft.

Historical Maximum Water Level: Aug 29 2012, 9.45 ft.

Next High Tide: 10/09/2017 04:55 (CDT), 0.53 ft.

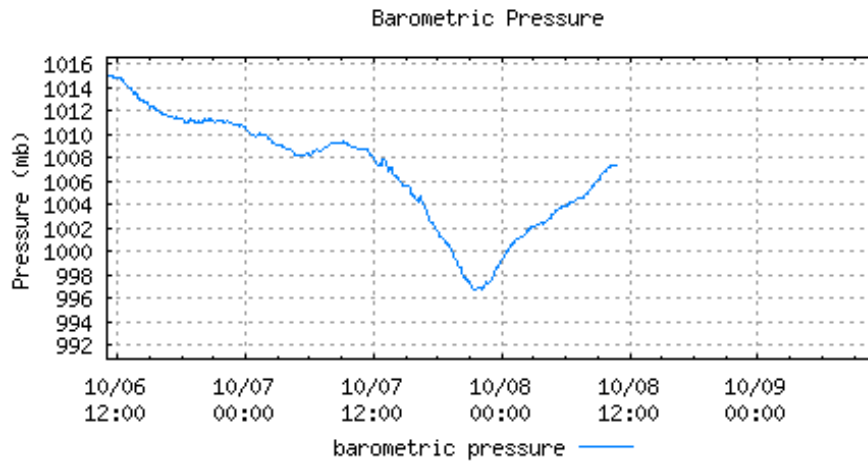
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2017 10:48 (CDT)

Wind Speed: 9 knots Gusts: 12 knots Direction: 213° T

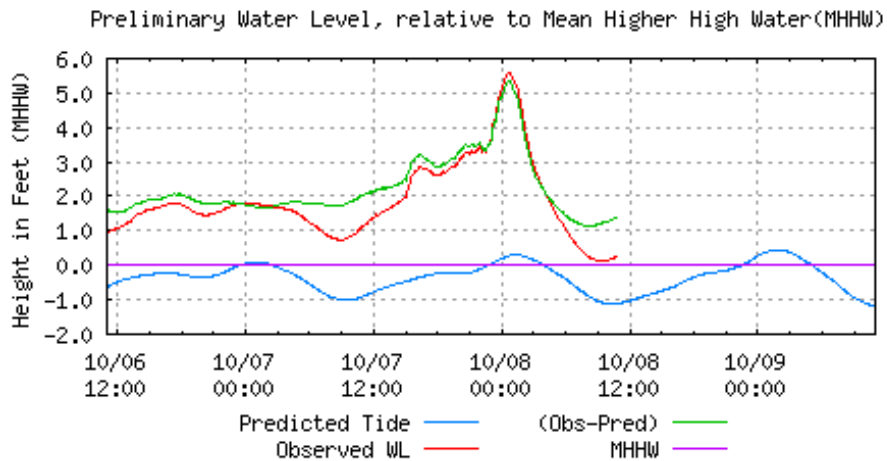
NOAA/NOS/CO-OPS 8761305 Shell Beach, LA



Last Observed Sample: 10/08/2017 10:48 (CDT)

Barometric Pressure: 1007.3 mb

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS



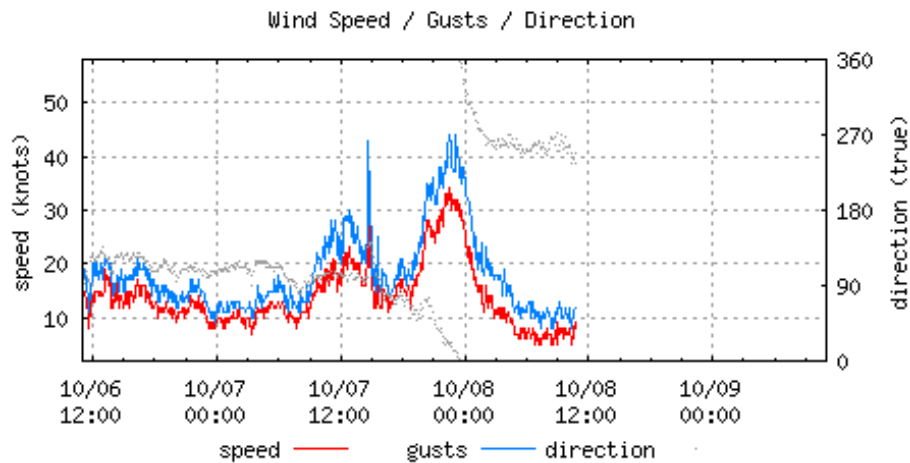
Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

Observed: 0.26 ft. Predicted: -1.12 ft. Residual: 1.38 ft.

Historical Maximum Water Level: Sep 1 2008, 9.10 ft.

Next High Tide: 10/09/2017 01:52 (CDT), 0.45 ft.

NOAA/NOS/CO-OPS 8747437 Bay Waveland Yacht Club, MS

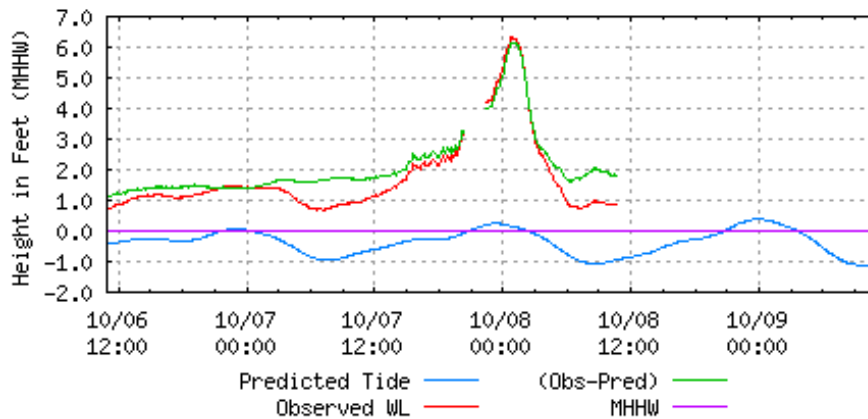


Last Observed Sample: 10/08/2017 10:48 (CDT)

Wind Speed: 8 knots Gusts: 12 knots Direction: 247° T

NOAA/NOS/CO-OPS 8741533 Pascagoula NOAA Lab, MS

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



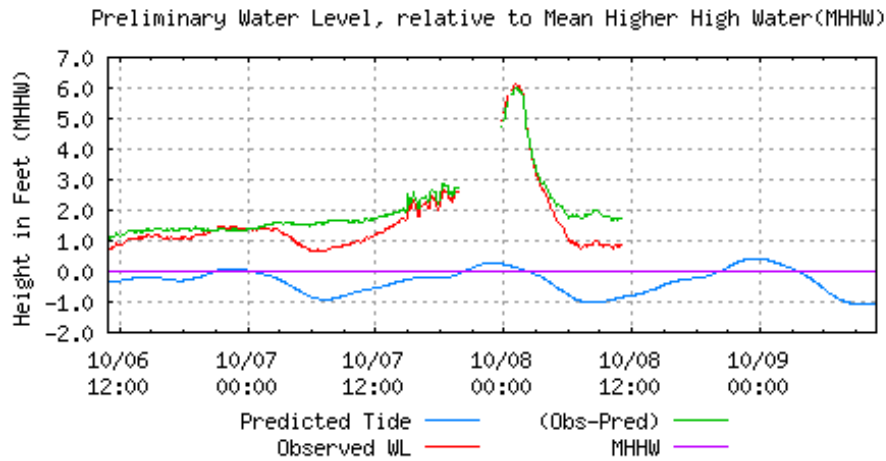
Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

Observed: 0.86 ft. Predicted: -0.94 ft. Residual: 1.80 ft.

Historical Maximum Water Level: Sep 1 2008, 4.90 ft.

Next High Tide: 10/08/2017 23:56 (CDT), 0.38 ft.

NOAA/NOS/CO-OPS 8741041 Dock E, Port of Pascagoula, MS



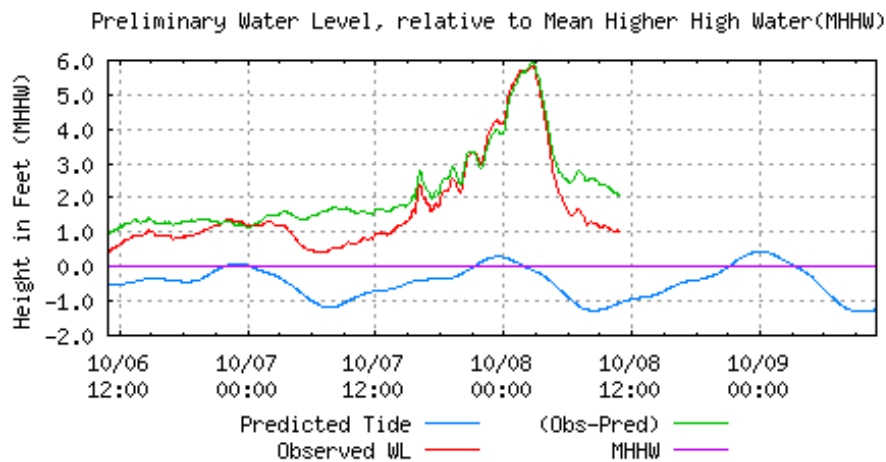
Last Observed Sample: 10/08/2017 11:06 (CDT). Data relative to MHHW

Observed: 0.90 ft. Predicted: -0.85 ft. Residual: 1.75 ft.

Historical Maximum Water Level: Sep 1 2008, 4.76 ft.

Next High Tide: 10/08/2017 23:33 (CDT), 0.42 ft.

NOAA/NOS/CO-OPS 8739803 Bayou La Batre Bridge, AL



Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

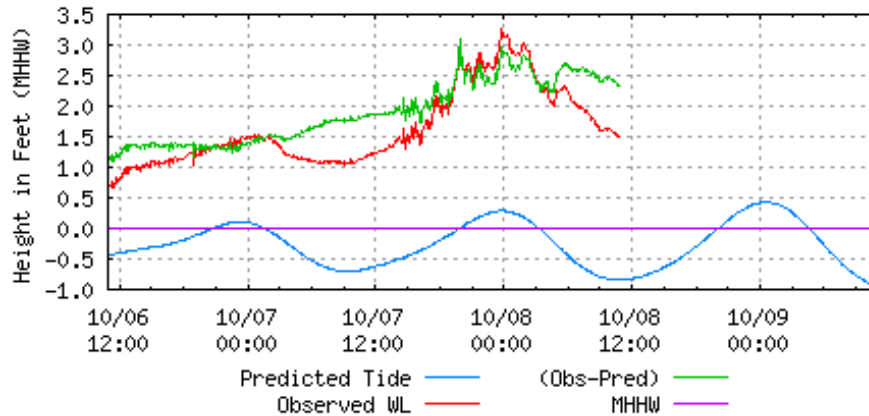
Observed: 1.05 ft. Predicted: -1.05 ft. Residual: 2.10 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/09/2017 00:06 (CDT), 0.44 ft.

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

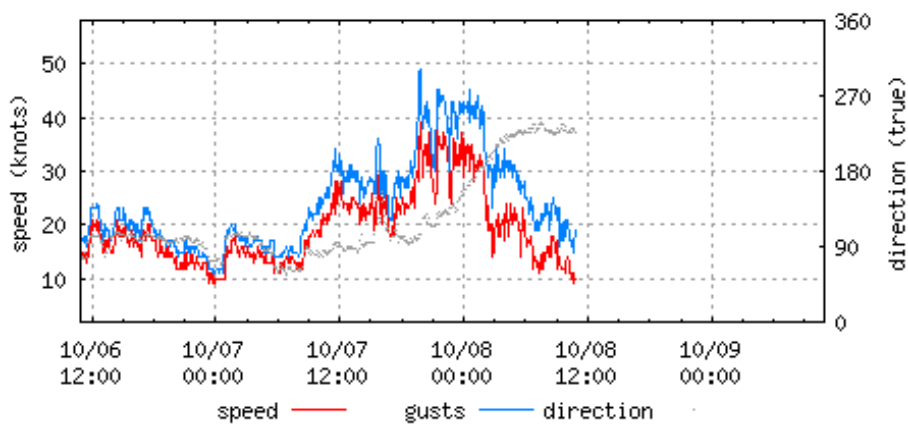
Observed: 1.46 ft. Predicted: -0.84 ft. Residual: 2.30 ft.

Historical Maximum Water Level: Sep 16 2004, 5.94 ft.

Next High Tide: 10/09/2017 00:33 (CDT), 0.43 ft.

NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL

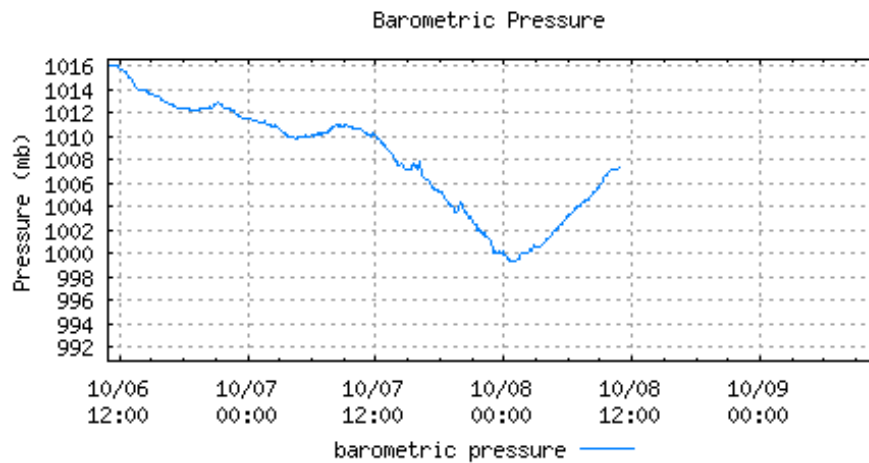
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 9 knots Gusts: 16 knots Direction: 231° T

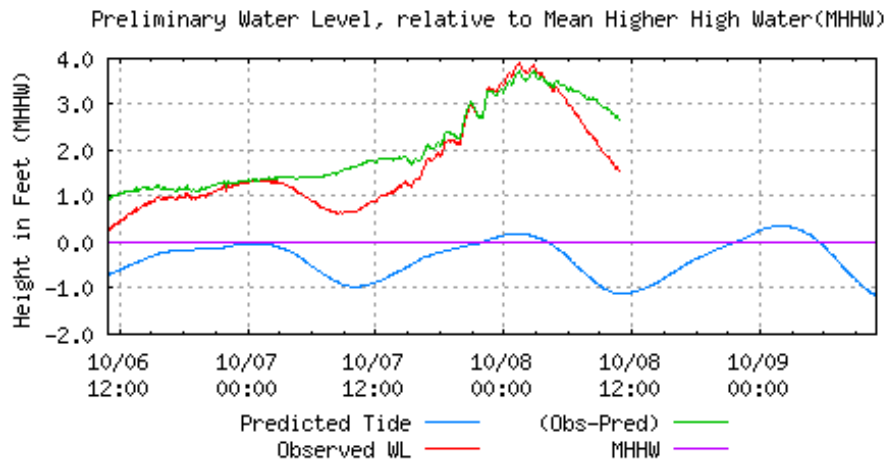
NOAA/NOS/CO-OPS 8735180 Dauphin Island, AL



Last Observed Sample: 10/08/2017 10:54 (CDT)

Barometric Pressure: 1007.4 mb

NOAA/NOS/CO-OPS 8735523 East Fowl River Bridge, AL



Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

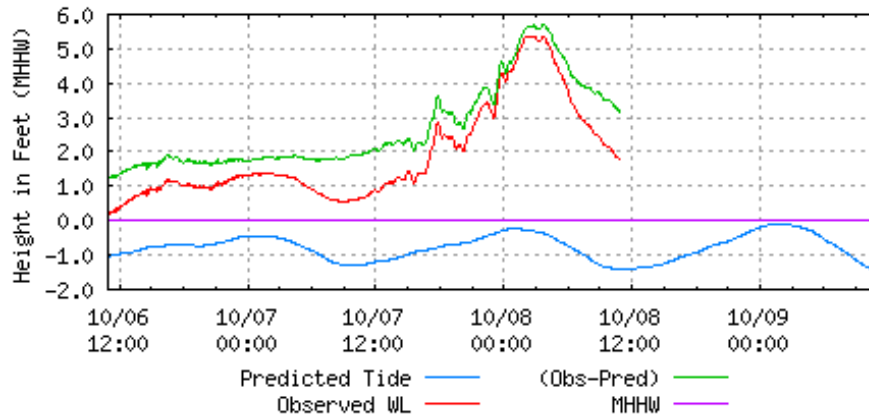
Observed: 1.57 ft. Predicted: -1.11 ft. Residual: 2.68 ft.

Historical Maximum Water Level: Aug 29 2012, 3.75 ft.

Next High Tide: 10/09/2017 01:56 (CDT), 0.35 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

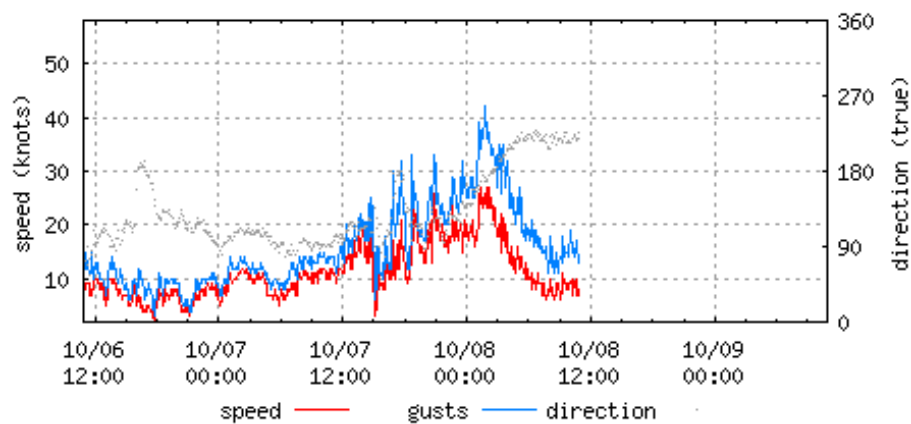
Observed: 1.77 ft. Predicted: -1.41 ft. Residual: 3.18 ft.

Historical Maximum Water Level: Sep 1 2008, 3.80 ft.

Next High Tide: 10/09/2017 01:43 (CDT), -0.08 ft.

NOAA/NOS/CO-OPS 8736897 Coast Guard Sector Mobile, AL

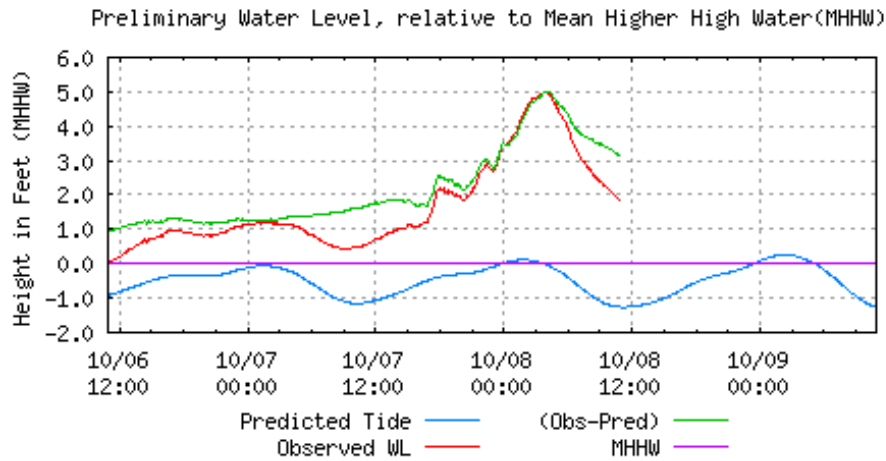
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 8 knots Gusts: 13 knots Direction: 220° T

NOAA/NOS/CO-OPS 8737048 Mobile State Docks, AL



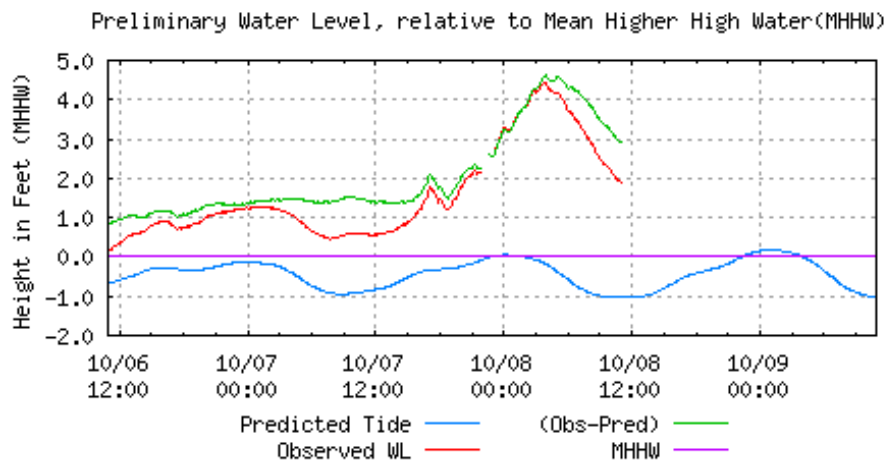
Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

Observed: 1.88 ft. Predicted: -1.25 ft. Residual: 3.13 ft.

Historical Maximum Water Level: Aug 29 2012, 3.67 ft.

Next High Tide: 10/09/2017 02:20 (CDT), 0.26 ft.

NOAA/NOS/CO-OPS 8732828 Weeks Bay, Mobile Bay, AL



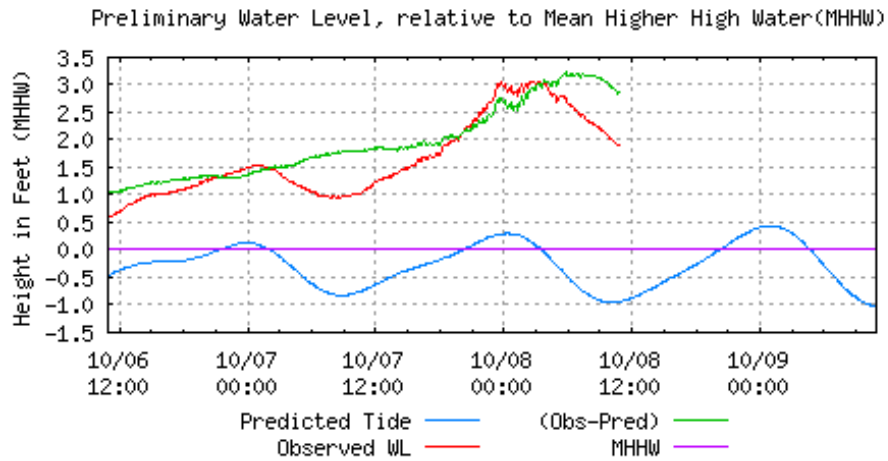
Last Observed Sample: 10/08/2017 11:00 (CDT). Data relative to MHHW

Observed: 1.91 ft. Predicted: -1.01 ft. Residual: 2.92 ft.

Historical Maximum Water Level: Aug 29 2012, 2.85 ft.

Next High Tide: 10/09/2017 00:59 (CDT), 0.17 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL



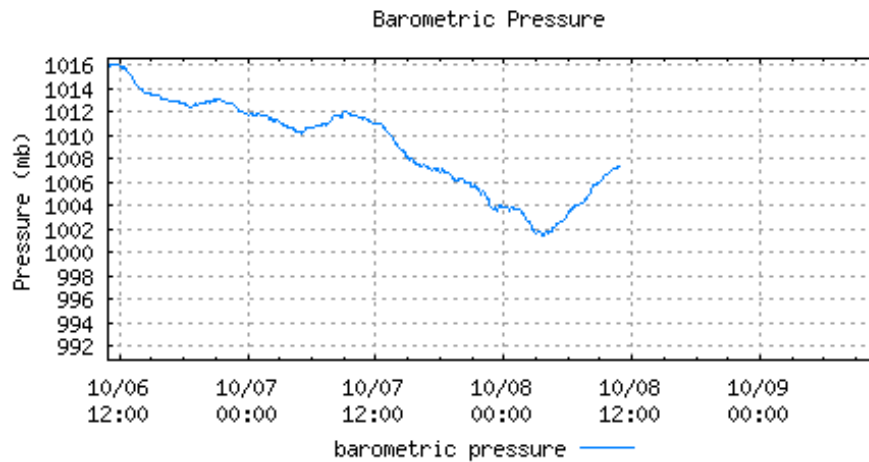
Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

Observed: 1.92 ft. Predicted: -0.94 ft. Residual: 2.86 ft.

Historical Maximum Water Level: Sep 18 1926, 7.41 ft.

Next High Tide: 10/09/2017 00:57 (CDT), 0.44 ft.

NOAA/NOS/CO-OPS 8729840 Pensacola, FL

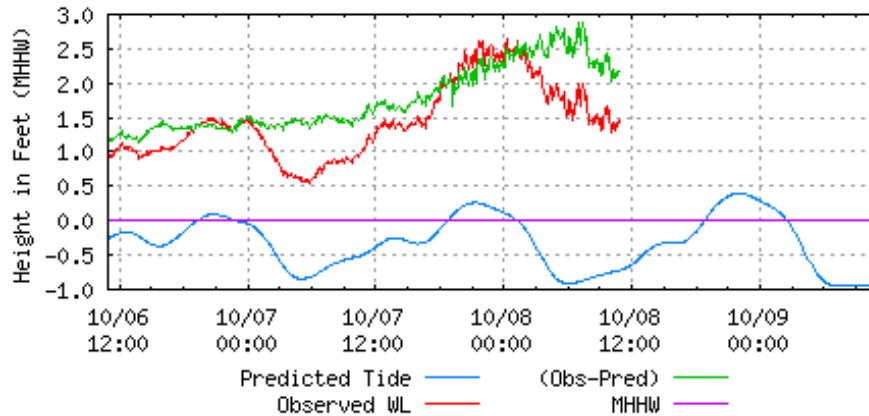


Last Observed Sample: 10/08/2017 10:48 (CDT)

Barometric Pressure: 1007.3 mb

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 10:48 (CDT). Data relative to MHHW

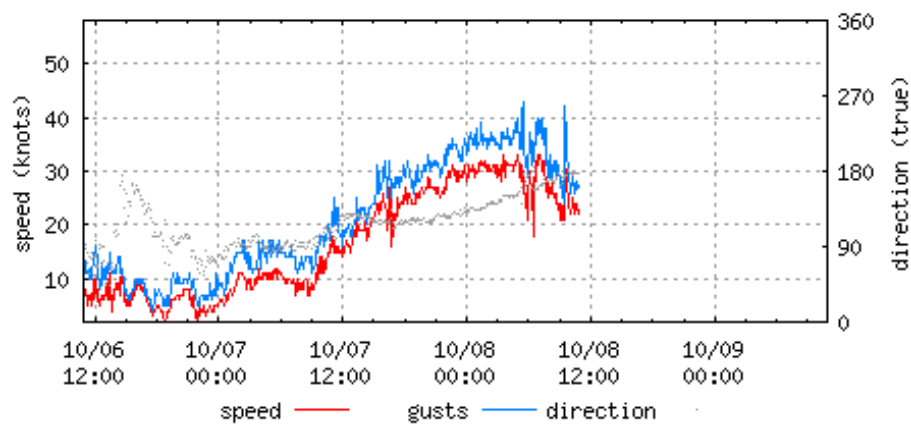
Observed: 1.45 ft. Predicted: -0.73 ft. Residual: 2.18 ft.

Historical Maximum Water Level: Oct 4 1995, 6.84 ft.

Next High Tide: 10/08/2017 22:00 (CDT), 0.40 ft.

NOAA/NOS/CO-OPS 8729210 Panama City Beach, FL

Wind Speed / Gusts / Direction

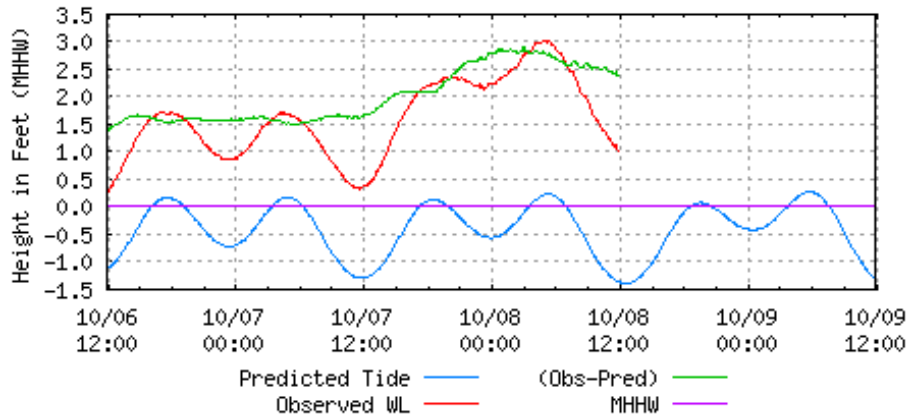


Last Observed Sample: 10/08/2017 10:48 (CDT)

Wind Speed: 22 knots Gusts: 27 knots Direction: 178° T

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 10/08/2017 11:54 (EDT). Data relative to MHHW

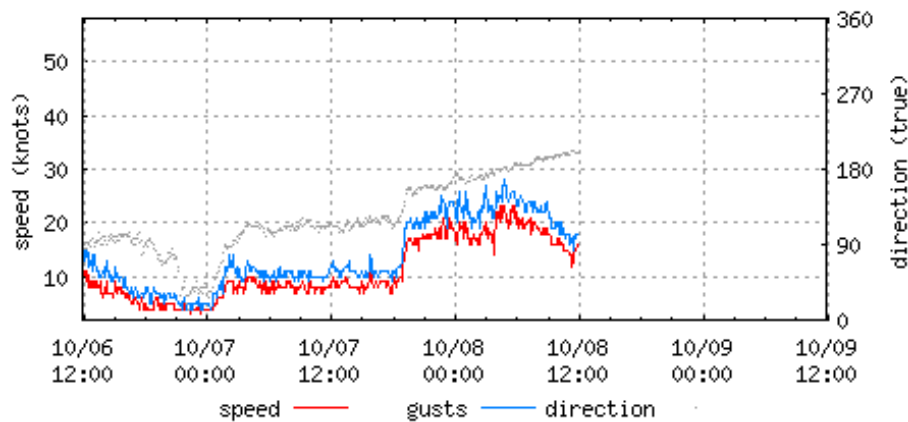
Observed: 1.02 ft. Predicted: -1.36 ft. Residual: 2.38 ft.

Historical Maximum Water Level: Jul 10 2005, 6.43 ft.

Next High Tide: 10/08/2017 19:32 (EDT), 0.07 ft.

NOAA/NOS/CO-OPS 8728690 Apalachicola, FL

Wind Speed / Gusts / Direction

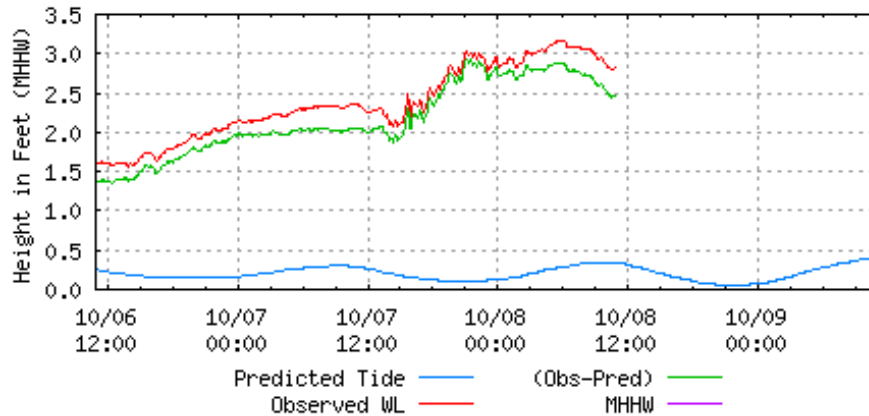


Last Observed Sample: 10/08/2017 11:54 (EDT)

Wind Speed: 15 knots Gusts: 17 knots Direction: 200° T

NOAA/NOS/CO-OPS 8761927 New Canal Station, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

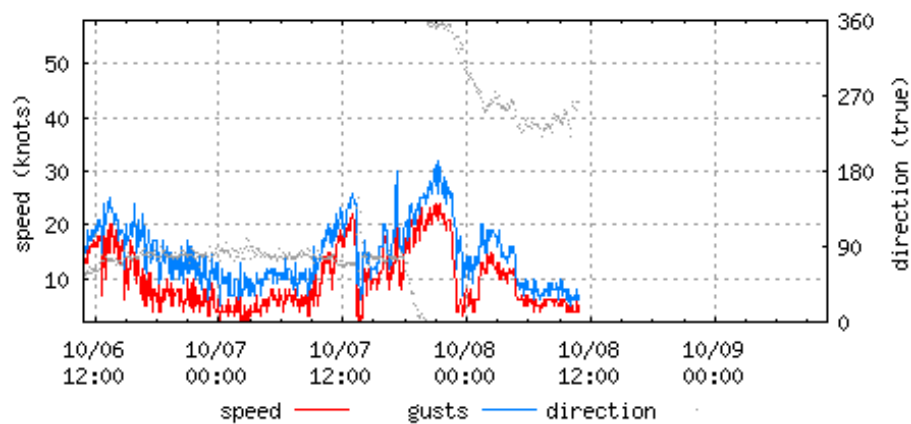
Observed: 2.83 ft. Predicted: 0.34 ft. Residual: 2.49 ft.

Historical Maximum Water Level: Aug 30 2012, 6.03 ft.

Next High Tide: 10/09/2017 10:26 (CDT), 0.38 ft.

NOAA/NOS/CO-OPS 8761927 New Canal Station, LA

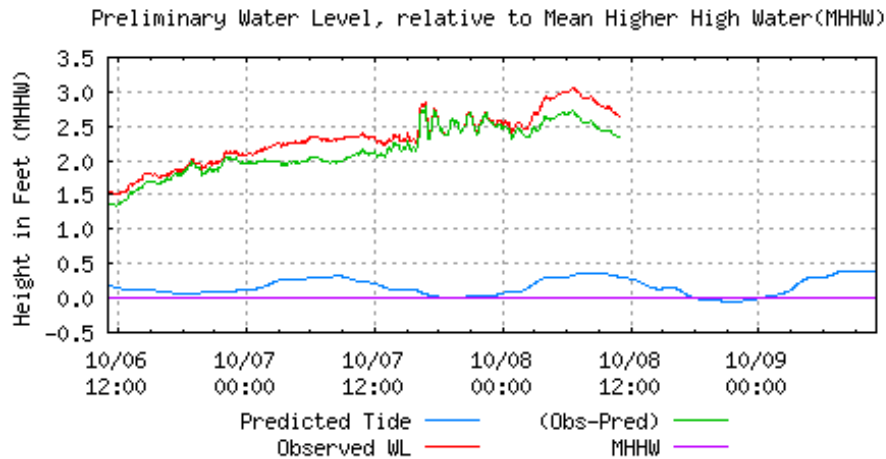
Wind Speed / Gusts / Direction



Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 2 knots Gusts: 4 knots Direction: 279° T

NOAA/NOS/CO-OPS 8762483 I-10 Bonnet Carre Floodway, LA



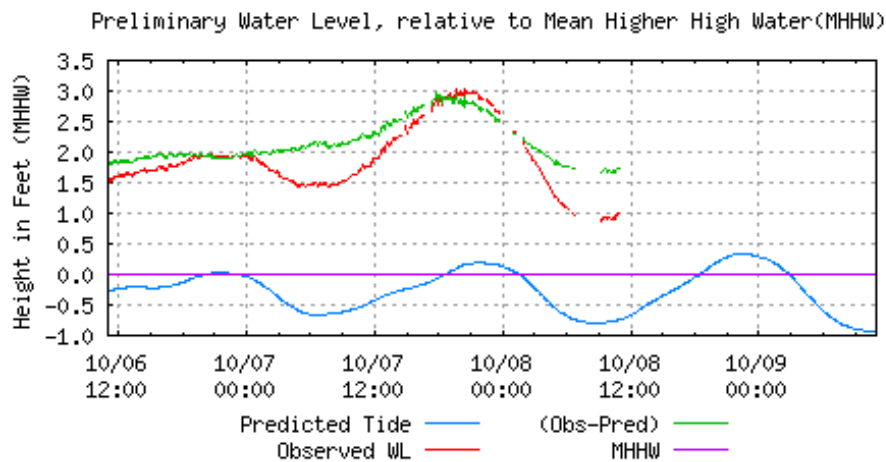
Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

Observed: 2.65 ft. Predicted: 0.31 ft. Residual: 2.34 ft.

Historical Maximum Water Level: n/a

Next High Tide: 10/09/2017 10:37 (CDT), 0.38 ft.

NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA



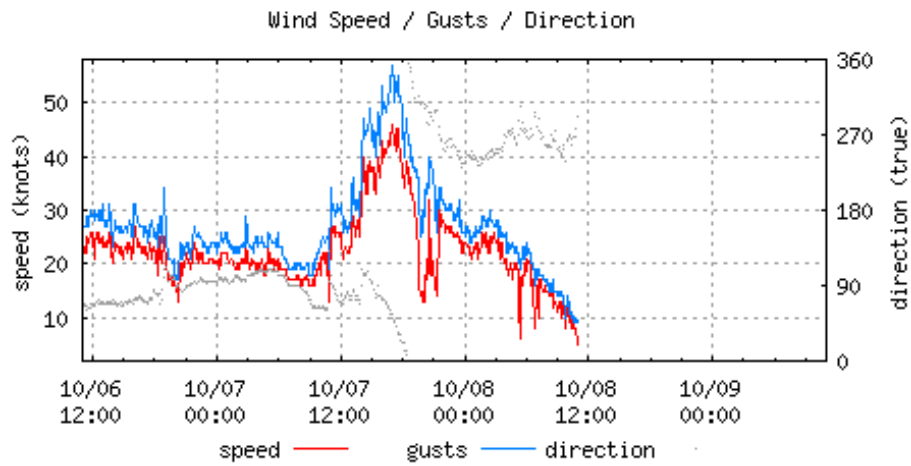
Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

Observed: 0.99 ft. Predicted: -0.75 ft. Residual: 1.74 ft.

Historical Maximum Water Level: Aug 29 2005, 5.98 ft.

Next High Tide: 10/08/2017 22:23 (CDT), 0.33 ft.

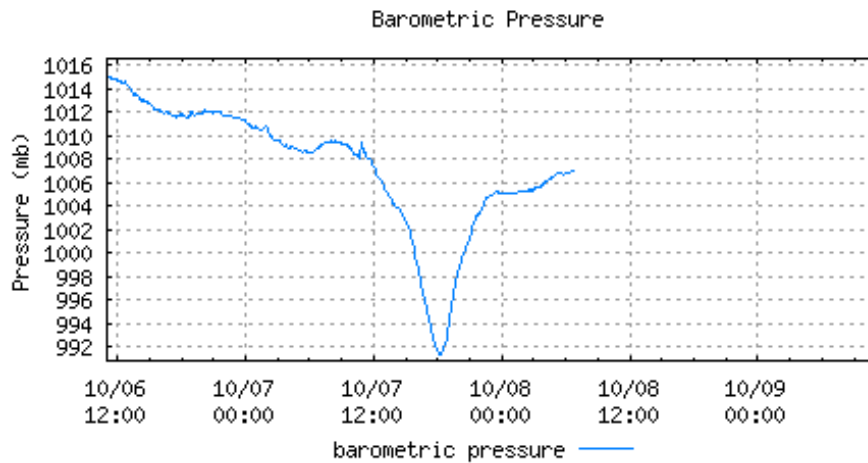
NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA



Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 5 knots Gusts: 9 knots Direction: 292° T

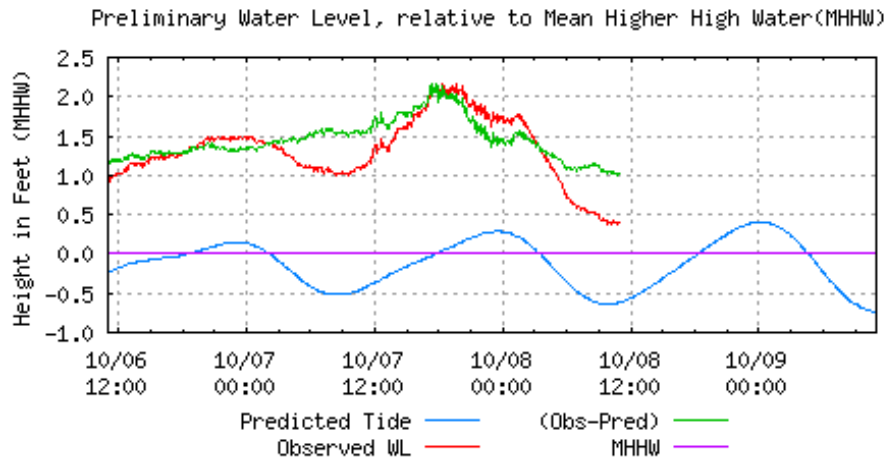
NOAA/NOS/CO-OPS 8760922 Pilots Station East, SW Pass, LA



Last Observed Sample: 10/08/2017 10:54 (CDT)

Barometric Pressure: 1007.0 mb

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA



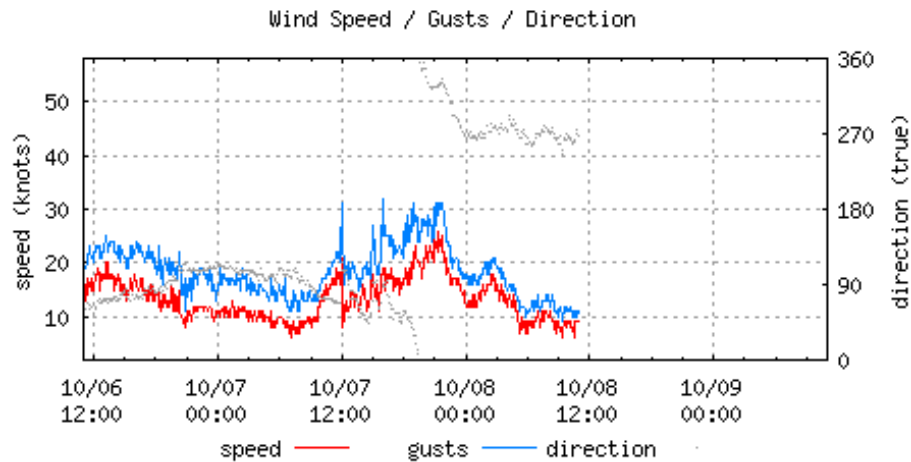
Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

Observed: 0.40 ft. Predicted: -0.62 ft. Residual: 1.02 ft.

Historical Maximum Water Level: Aug 29 2012, 4.45 ft.

Next High Tide: 10/09/2017 00:09 (CDT), 0.40 ft.

NOAA/NOS/CO-OPS 8761724 Grand Isle, LA

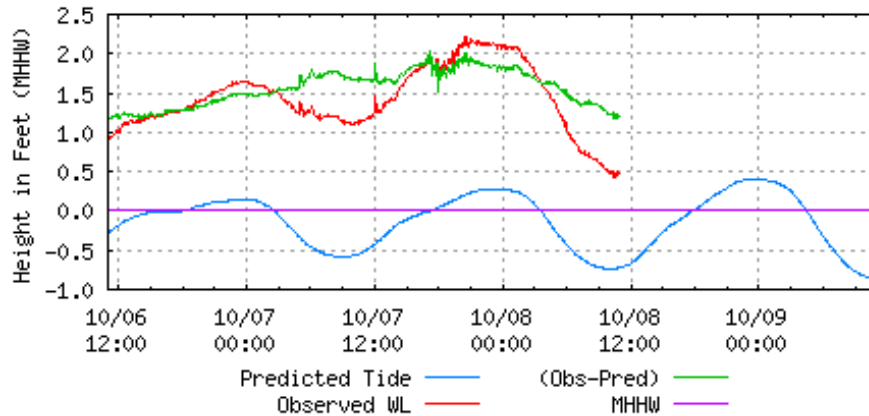


Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 9 knots Gusts: 11 knots Direction: 267° T

NOAA/NOS/CO-OPS 8762075 Port Fourchon, Belle Pass, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

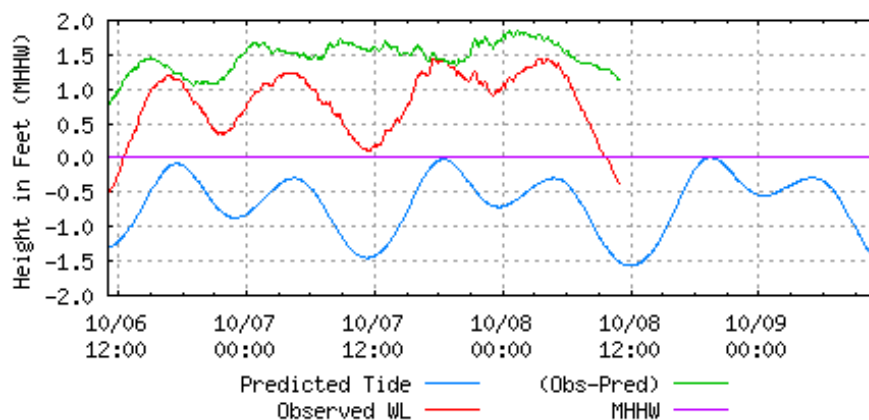
Observed: 0.48 ft. Predicted: -0.73 ft. Residual: 1.21 ft.

Historical Maximum Water Level: Sep 24 2005, 3.70 ft.

Next High Tide: 10/08/2017 23:27 (CDT), 0.41 ft.

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



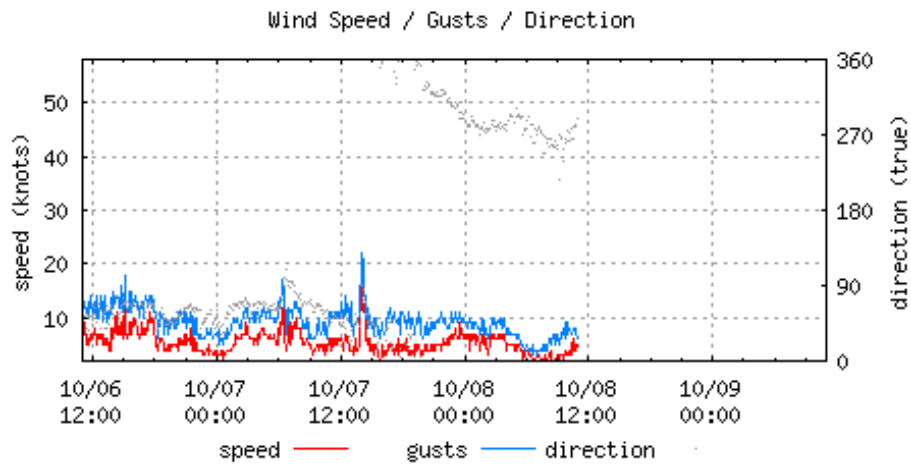
Last Observed Sample: 10/08/2017 10:54 (CDT). Data relative to MHHW

Observed: -0.37 ft. Predicted: -1.51 ft. Residual: 1.14 ft.

Historical Maximum Water Level: Sep 12 2008, 5.94 ft.

Next High Tide: 10/08/2017 19:27 (CDT), 0.00 ft.

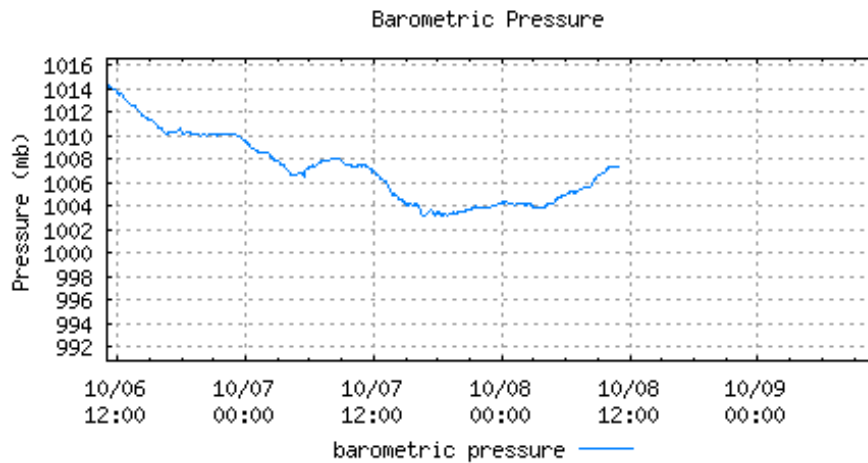
NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/08/2017 10:54 (CDT)

Wind Speed: 5 knots Gusts: 6 knots Direction: 289° T

NOAA/NOS/CO-OPS 8764227 LAWMA, Amerada Pass, LA



Last Observed Sample: 10/08/2017 10:54 (CDT)

Barometric Pressure: 1007.3 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8761305	Shell Beach, LA	10/08/2017 10:48 (CDT)	0.93 ft	-0.52 ft	1.45 ft	5.08 ft
8747437	Bay Waveland Yacht Club, MS	10/08/2017 10:48 (CDT)	0.26 ft	-1.12 ft	1.38 ft	5.60 ft
8741533	Pascagoula NOAA Lab, MS	10/08/2017 10:48 (CDT)	0.86 ft	-0.94 ft	1.80 ft	6.31 ft
8741041	Dock E, Port of Pascagoula, MS	10/08/2017 11:06 (CDT)	0.90 ft	-0.85 ft	1.75 ft	6.14 ft
8739803	Bayou La Batre Bridge, AL	10/08/2017 10:54 (CDT)	1.05 ft	-1.05 ft	2.10 ft	5.85 ft
8735180	Dauphin Island, AL	10/08/2017 10:54 (CDT)	1.46 ft	-0.84 ft	2.30 ft	3.26 ft
8735523	East Fowl River Bridge, AL	10/08/2017 10:48 (CDT)	1.57 ft	-1.11 ft	2.68 ft	3.92 ft
8736897	Coast Guard Sector Mobile, AL	10/08/2017 10:54 (CDT)	1.77 ft	-1.41 ft	3.18 ft	5.37 ft
8737048	Mobile State Docks, AL	10/08/2017 10:48 (CDT)	1.88 ft	-1.25 ft	3.13 ft	5.00 ft
8732828	Weeks Bay, Mobile Bay, AL	10/08/2017 11:00 (CDT)	1.91 ft	-1.01 ft	2.92 ft	4.44 ft
8729840	Pensacola, FL	10/08/2017 10:48 (CDT)	1.92 ft	-0.94 ft	2.86 ft	3.07 ft
8729210	Panama City Beach, FL	10/08/2017 10:48 (CDT)	1.45 ft	-0.73 ft	2.18 ft	2.63 ft
8728690	Apalachicola, FL	10/08/2017 11:54 (EDT)	1.02 ft	-1.36 ft	2.38 ft	3.03 ft
8761927	New Canal Station, LA	10/08/2017 10:54 (CDT)	2.83 ft	0.34 ft	2.49 ft	3.17 ft
8762483	I-10 Bonnet Carre Floodway, LA	10/08/2017 10:54 (CDT)	2.65 ft	0.31 ft	2.34 ft	3.05 ft
8760922	Pilots Station East, SW Pass, LA	10/08/2017 10:54 (CDT)	0.99 ft	-0.75 ft	1.74 ft	3.04 ft
8761724	Grand Isle, LA	10/08/2017 10:54 (CDT)	0.40 ft	-0.62 ft	1.02 ft	2.16 ft
8762075	Port Fourchon, Belle Pass, LA	10/08/2017 10:54 (CDT)	0.48 ft	-0.73 ft	1.21 ft	2.21 ft
8764227	LAWMA, Amerada Pass, LA	10/08/2017 10:54 (CDT)	-0.37 ft	-1.51 ft	1.14 ft	1.44 ft

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